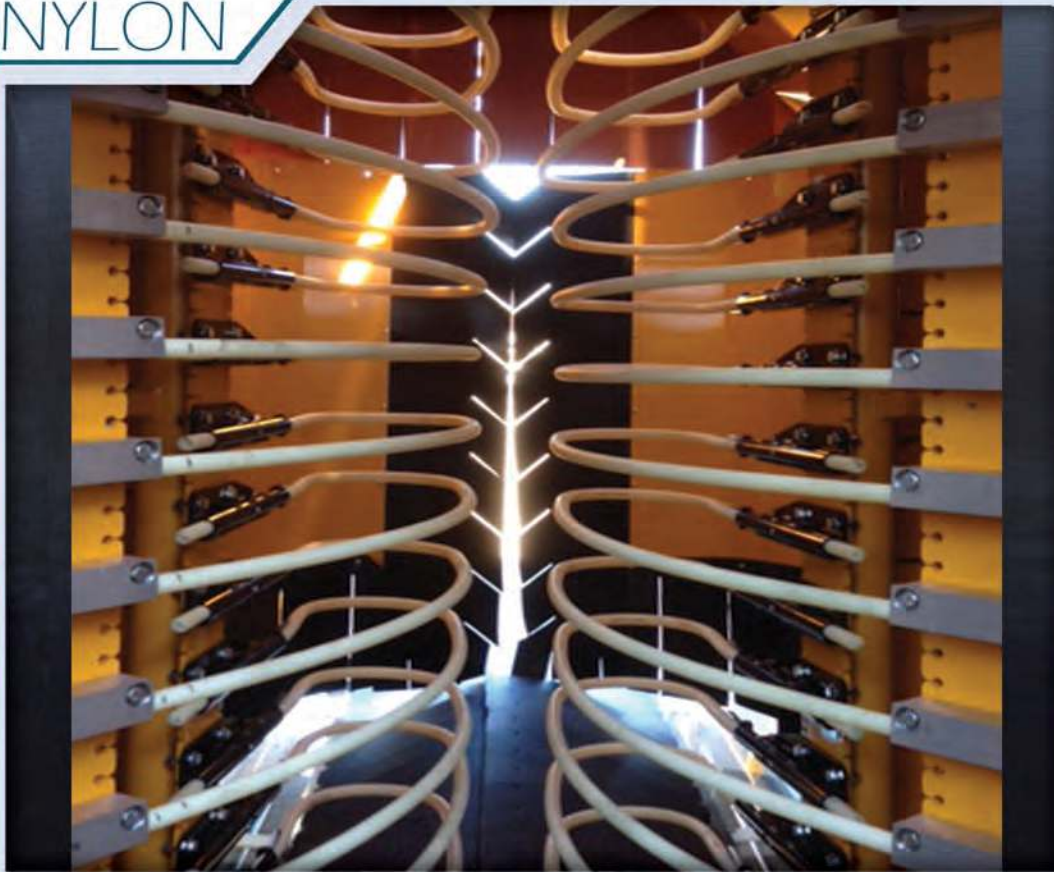




## MECHETEC<sup>®</sup> NYLON



Polyamide ( PA ) Extruded Nylon 6/6



Excellent Wear Resistance



Light Weight

### APPLICATIONS

Harvesting Rods  
Rollers and Wheels  
Pump Components  
Sheaves and Pulleys  
Gears and Sprockets  
Bushings and Bearings

### KEY FEATURES

210 °F Continuous Use Temperature  
Excellent Toughness and Resiliency  
Superior Abrasion Resistance  
Good Chemical Resistance  
High Strength and Stiffness

### SHAPES AND SIZES

#### ROD DIAMETER

NATURAL	0.25" - 6.0"
BLACK	0.25" - 6.0"
Ld	0.25" - 4.0"
Rg-30	0.375" - 4.0"

#### SHEET THICKNESS

NATURAL	0.25" - 2.0"
BLACK	0.25" - 2.0"
Ld	0.25" - 2.0"
Rg-30	0.375" - 4.0"



**MECHETEC®**  
**NYLON**

	Test Method	Units	NATURAL and BLACK Unfilled Nylon 6/6	NYLON Ld MoS <sub>2</sub> Filled Nylon 6/6	NYLON Rg-30 30% Glass Filled Nylon 6/6
<b>Mechanical</b>					
Specific Gravity	ASTM-D792	—	1.14	1.16	1.33
Tensile Strength	ASTM-D638	psi	11,500	11,800	18,350
Tensile Elongation	ASTM-D638	%	60	50	4-6
Tensile Modulus of Elasticity	ASTM-D638	psi	410,000	500,000	1,200,000
Flexural Strength	ASTM-D790	psi	14,500	15,000	27,000
Flexural Modulus of Elasticity	ASTM-D790	psi	410,000	480,000	950,000
Compressive Strength	ASTM-D695	psi	13,000	16,000	20,000
Izod Notched Impact	ASTM-D256	ft.-lb./in.	0.6	0.5	2.3
Rockwell Hardness	ASTM-D785	M or R scale	M80(R121)	M85(R115)	M101
<b>Thermal</b>					
Coef. of Linear Thermal Expansion	ASTM-D696	in./in./deg F	5.0 x 10 <sup>-5</sup>	4.0 x 10 <sup>-5</sup>	1.2 x 10 <sup>-5</sup>
Max. Continuous Use Temp.	Internal Std.	°F	210	210	210
Heat Deflection Temp. @ 264 psi	ASTM-D648	°F	200	210	460
Melting Point	ASTM-D3418	°F	504	495	504
<b>Electrical</b>					
Dielectric Strength-Short Term	ASTM-D149	volts/mil	400	350	530
Dielectric Constant @ 60 Hz	ASTM-D150	—	5	3.7	3.5
Dielectric Constant @ 106Hz	ASTM-D150	—	3.6	—	3.7
Dissipation Factor @ 60 Hz	ASTM-D150	—	0.01	—	0.014
Volume Resistivity	ASTM-D257	ohm-cm	10 <sup>15</sup>	10 <sup>13</sup>	10 <sup>15</sup>
<b>Miscellaneous</b>					
Water Absorption/24 hrs.	ASTM-D570	% weight	1.2	0.7	0.7
Water Absorption @ Saturation	ASTM-D570	% weight	7.0	6.5	5.4
Flammability	UL-94	—	V-2	V-2	HB
Dynamic Coefficient of Friction	Internal Std.	—	0.25	0.23	0.31
<b>Agency Compliance</b>					
FDA	---	---	Yes	No	No
USDA	---	---	Yes	No	No
NSF	---	---	Yes	No	No

Other NYLON Specialties Available- MECHETEC im (Zytel ST801)  
Call for Details and Pricing

MECHETEC® is a registered trademark of Polymer Industries

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